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Sughrue Mion	Zinn MacPeak & Seas	RYMAN, DANIEL J			
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Washington, DC 20037-3213					
		,	2665		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)			
Office Action Summary		09/587,90	9	ENSSLE ET AL.			
		Examiner		Art Unit			
		Daniel J. F	-	2665			
<i> The M</i> Period for Reply	AILING DATE of this communi	ication appears on the	cover sheet with the c	correspondence ad	idress		
THE MAILING - Extensions of tir after SIX (6) MO - If the period for - If NO period for - Failure to reply we have reply received.	ED STATUTORY PERIOD FOR DATE OF THIS COMMUNI ne may be available under the provisions NTHS from the mailing date of this commely specified above is less than thirty (30 reply is specified above, the maximum stavithin the set or extended period for reply ed by the Office later than three months a rm adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evenunication. 0) days, a reply within the statuatutory period will apply and wiwill, by statute, cause the appl	nt, however, may a reply be tin tory minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).			
Status							
1)⊠ Respor	nsive to communication(s) file	ed on 22 October 2004	4.				
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closed	in accordance with the praction	ce under <i>Ex parte Qu</i>	ayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of C	laims						
4a) Of t 5) ☐ Claim(s 6) ☑ Claim(s 7) ☐ Claim(s	s) 1-17 is/are pending in the a he above claim(s) is/are s) is/are allowed. s) 1-17 is/are rejected. s) is/are objected to. s) are subject to restrict	re withdrawn from con					
Application Pap	ers						
9)∐ The spe	cification is objected to by the	e Examiner.					
10)∐ The dra	wing(s) filed on is/are:	a) accepted or b)	objected to by the	Examiner.			
Applicar	nt may not request that any object	ction to the drawing(s) b	e held in abeyance. Se	e 37 CFR 1.85(a).			
•	ment drawing sheet(s) including h or declaration is objected to	•	• • •	•	• •		
Priority under 3	•						
12) Acknow	ledgment is made of a claim b) ☐ Some * c) ☐ None of:	for foreign priority und	der 35 U.S.C. § 119(a)-(d) or (f).			
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` ' '	rences Cited (PTO-892)		4) Interview Summary	(PTO-413)			
2) Notice of Drafts	sperson's Patent Drawing Review (P		Paper No(s)/Mail D	ate	0.450)		
3) Information Dis Paper No(s)/M	closure Statement(s) (PTO-1449 or ail Date	PTO/SB/08)	5) Notice of Informal F 6) Other:	ratent Application (PT	O-152)		

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236).
- 4. Regarding claim 1, Fukasawa discloses a transmitting facility for a multipoint-to-point synchronous CDMA network (col. 5, lines 25-34) where, as broadly defined, the system is a multipoint-to-point system since the base station communicates to multiple mobile units simultaneously, comprising a unit for generating a CDMA-coded information signal (col. 2, lines 40-64 and col. 3, lines 8-20), said facility further comprising a unit for generating an acquisition signal (synchronization signal) (col. 2, lines 3-23 and col. 3, line 57-col. 4, line 45) and a transmitter for transmitting the acquisition signal in the same transmission channel as the information signal (col. 2, lines 40-45).

Fukasawa does not expressly disclose in the primary embodiment that the signal level of the acquisition signal is telemetrically adjustable; however, Fukasawa does disclose in an additional embodiment that the signal level is telemetrically adjustable in order to ensure that the

acquisition signal is sent at a power level that will minimize interference for the system (col. 6, line 33-col. 7, line 2). It would have been obvious to one of ordinary skill in the art at the time of the invention to have the signal level be telemetrically adjustable in order to ensure that the

acquisition signal is sent at a power level that will minimize interference for the system.

Fukasawa does not expressly disclose encoding the acquisition signal with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code; however, Fukasawa does disclose that the acquisition signal comprises an acquisition code (first chip code) which is not a CDMA communication code (second chip code) (col. 1, lines 42-63, col. 2, lines 3-23; col. 2, line 54-64; and col. 3, line 57-col. 4, line 45). Fukasawa also discloses that the synchronization signal consists of the first chip code (col. 2, lines 54-56). Pandula teaches, in a communication system using synchronization, that a code is used to represent a signal (col. 1, lines 32-50), such that the code and signal are different than one another. Pandula also teaches that a synchronization signal can be analyzed solely as a modulated carrier (i.e. as a code) or as a demodulated signal where "[t]he advantage of the latter methodology is that it produces a more cost-effective and compact design" (col. 2, lines 31-42). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to encode the acquisition signal with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code since demodulating a synchronization signal for the purpose of determining if synchronization has been obtained produces a more costeffective and compact design than analyzing a modulated code.

- 5. Claims 2, 3, 5, 8, 10, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236) in further view of Skinner et al. (USPN 5,577,025).
- 6. Regarding claim 2, Fukasawa discloses a receiving facility for a multipoint-to-point synchronous CDMA network (col. 5, lines 25-34) where, as broadly defined, the system is a multipoint-to-point system since the base station communicates to multiple mobile units simultaneously, comprising a unit for receiving and detecting a CDMA-coded information signal and a unit for receiving and detecting an acquisition signal (synchronization signal) comprising a detector (col. 2, lines 3-23; col. 2, lines 40-64; and col. 3, line 57-col. 4, line 45), the acquisition signal being transmitted in the same transmission channel as the information signal (col. 2, lines 40-45).

Fukasawa does not expressly disclose that the unit for receiving and detecting an acquisition signal comprises a detector for detecting said acquisition signals with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code; however, Fukasawa does disclose that the acquisition signal comprises an acquisition code (first chip code) which is not a CDMA communication code (second chip code) (col. 1, lines 42-63; col. 2, lines 3-23; col. 2, line 54-64; and col. 3, line 57-col. 4, line 45). Fukasawa also discloses that the synchronization signal consists of the first chip code (col. 2, lines 54-56). Pandula teaches, in a communication system using synchronization, that a code is used to represent a signal (col. 1, lines 32-50), such that the code and the signal are different than one another. Pandula also teaches that a synchronization signal can be analyzed solely as a modulated carrier (i.e. as a code) or as a demodulated signal where "[t]he advantage of the latter

methodology is that it produces a more cost-effective and compact design" (col. 2, lines 31-42). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the unit for receiving and detecting an acquisition signal comprise a detector for detecting said acquisition signals with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code since demodulating a synchronization signal for the purpose of determining if synchronization has been obtained produces a more cost-effective and compact design than analyzing a modulated code.

Fukasawa in view of Pandula does not expressly disclose that said unit for receiving and detecting an acquisition signal comprises a logical correlator for correlating at least two serially transmitted, identical acquisition signals, and an accumulator for accumulating the correlated acquisition signals, by means of which the detection of the acquisition signal can be carried out; however, Fukasawa in view of Pandula does disclose having at least two serially transmitted, identical acquisition signals (Fukasawa: col. 1, lines 42-63; col. 2, lines 3-32; and col. 3, line 57col. 4, line 45). Skinner teaches as prior art, in a CDMA communication system, acquiring a signal using a logical correlator for correlating a signal with a code, and an accumulator for accumulating the correlated signals, by means of which the detection of the signal can be carried out (col. 3, lines 15-26). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the unit for receiving and detecting an acquisition signal comprise a logical correlator for correlating at least two serially transmitted, identical acquisition signals, and an accumulator for accumulating the correlated acquisition signals, by means of which the detection of the acquisition signal can be carried out, in order to acquire a signal.

7. Regarding claim 3, Fukasawa discloses an acquisition method for a multipoint-to-point synchronous CDMA network comprising at least two terminals and a center (col. 5, lines 25-34) where, as broadly defined, the system is a multipoint-to-point system since the base station communicates to multiple mobile units simultaneously, the terminals transmitting CDMA-coded information signals and acquisition signals to the center, wherein in order to achieve synchronization, each of the terminals transmitting serially to the center at least two identical acquisition signals (signal is repeatedly transmitted) which are transmitted in the same transmission channel as the information signal (col. 2, lines 40-45), and said center detecting the

Fukasawa does not expressly disclose in the primary embodiment that the signal level is telemetrically adjustable by the center; however, Fukasawa does disclose in an additional embodiment that the signal level is telemetrically adjustable by the center in order to ensure that the acquisition signal is sent at a power level that will minimize interference for the system (col. 6, line 33-col. 7, line 2). It would have been obvious to one of ordinary skill in the art at the time of the invention to have the signal level be telemetrically adjustable by the center in order to ensure that the acquisition signal is sent at a power level that will minimize interference for the system.

acquisition signal (col. 2, lines 3-23; col. 2, lines 40-64; and col. 3, line 57-col. 4, line 45).

Fukasawa does not expressly disclose that the center detects the acquisition signal with an acquisition code which is not a CDMA communication code; however, Fukasawa does disclose that the acquisition signal comprises an acquisition code (first chip code) which is not a CDMA communication code (second chip code) (col. 1, lines 42-63; col. 2, lines 3-23; col. 2, line 54-64; and col. 3, line 57-col. 4, line 45). Fukasawa also discloses that the synchronization

analyzing a modulated code.

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signal consists of the first chip code (col. 2, lines 54-56). Pandula teaches, in a communication system using synchronization, that a code is used to represent a signal (col. 1, lines 32-50). Pandula also teaches that a synchronization signal can be analyzed solely as a modulated carrier (i.e. as a code) or as a demodulated signal where "[t]he advantage of the latter methodology is that it produces a more cost-effective and compact design" (col. 2, lines 31-42). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the center detect the acquisition signal with an acquisition code which is not a CDMA communication code since demodulating a synchronization signal for the purpose of determining if synchronization has been obtained produces a more cost-effective and compact design than

Fukasawa in view of Pandula does not expressly disclose that the center logically correlates the detected acquisition signals and subsequently accumulates the correlated acquisition signals. Skinner teaches as prior art, in a CDMA communication system, acquiring a signal using a logical correlator for correlating a signal with a code, and an accumulator for accumulating the correlated signals, by means of which the detection of the signal can be carried out (col. 3, lines 15-26). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the center logically correlate the detected acquisition signals and subsequently accumulate the correlated acquisition signals in order to acquire a signal.

8. Regarding claim 5, referring to claim 2, Fukasawa in view of Pandula in further view of Skinner discloses that at least two logical correlators and at least two accumulators are provided for detecting at least two acquisition signals with different time relations to the CDMA signals and/or for allowing the use of two or more acquisition codes (Fukasawa: col. 1, lines 42-63 and

col. 5, lines 11-25) where it is disclosed that different spread codes are used for each unit to keep the communications separate.

- 9. Regarding claims 8 and 16, referring to claims 2 and 3, Fukasawa in view of Pandula in further view of Skinner discloses that prior to or after the accumulation, squaring is performed (Skinner: col. 3, lines 15-26).
- 10. Regarding claim 10, referring to claim 3, Fukasawa in view of Pandula in further view of Skinner does not expressly disclose that the center is adapted to telemetrically specify the transmitted power of the acquisition signals of the terminals in such a way that the sum level of all simultaneously transmitted acquisition signals is at least 10 dB lower than a sum level of all simultaneously transmitted information signals; however, Fukasawa in view of Pandula in further view of Skinner does expressly disclose that the center is adapted to telemetrically specify the transmitted power of the acquisition signals of the terminals in such a way that the sum level of all simultaneously transmitted acquisition signals is lower than a sum level of all simultaneously transmitted information signals (Fukasawa: col. 6, line 33-col. 7, line 2). It is generally considered to be within the ordinary skill in the art to adjust, vary, select, or optimize the numerical parameters or values of any system absent a showing of criticality in a particular recited value. The burden of showing criticality is on applicant. In re Mason, 87 F.2d 370, 32 USPQ 242 (CCPA 1937); Marconi Wireless Telegraph Co. v. U.S., 320 U.S. 1, 57 USPQ 471 (1943); In re Schneider, 148 F.2d 108, 65 USPQ 129 (CCPA 1945); In re Aller, 220 F.2d 454, 105 USPQ 233 (CCPA 1055); In re Saether, 492 F.2d 849, 181 USPQ 36 (CCPA 1974); In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977); In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). Since Fukasawa in view of Pandula in further view of Skinner discloses that the

center is adapted to telemetrically specify the transmitted power of the acquisition signals of the terminals in such a way that the sum level of all simultaneously transmitted acquisition signals is lower than a sum level of all simultaneously transmitted information signals, it would have been obvious to have the level be any amount lower, including at least 10 dB, absent a showing of criticality by Applicant.

- Regarding claim 17, incorporating the rejection of claim 2, Fukasawa in view of Pandula discloses each of the limitations of claim 17, as outlined in the rejection of claim 2, except that the signal level of the acquisition signal is telemetrically adjustable. In addition, Fukasawa in view of Pandula discloses in an additional embodiment of Fukasawa that the signal level is telemetrically adjustable in order to ensure that the acquisition signal is sent at a power level that will minimize interference for the system (Fukasawa: col. 6, line 33-col. 7, line 2). It would have been obvious to one of ordinary skill in the art at the time of the invention to have the signal level be telemetrically adjustable in order to ensure that the acquisition signal is sent at a power level that will minimize interference for the system.
- 12. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236) as applied to claim 1 above, and further in view of Schilling et al. (USPN 6,061,359).
- Regarding claim 4, referring to claim 1, Fukasawa in view of Pandula does not expressly disclose that the acquisition code is a Barker code; however, Fukasawa in view of Pandula does disclose that the acquisition code is a spreading code (Fukasawa: col. 2, lines 45-64). Schilling teaches, in a CDMA communication system, using Barker codes to spread an acquisition signal (col. 22, lines 40-41) since Barker codes can have good cross-correlation properties (col. 17, line

56-col. 18, line 9). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a Barker code as the acquisition code since Barker codes can have good cross-correlation properties.

- 14. Claims 6 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236) in further view of Skinner et al. (USPN 5,577,025) as applied to claims 2, 3, and 5 above, and further in view of Schilling et al. (USPN 6,061,359).
- 15. Regarding claims 6 and 13, referring to claims 2 and 5, Fukasawa in view of Pandula in further view of Skinner does not expressly disclose that at least one matched filter serves to implement one or more correlators. Schilling teaches, in a CDMA communication system, implementing a correlation function using matched filters (col. 8, lines 17-24) where it is implicit that matched filters are well known in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to use at least one matched filter to implement one or more correlators since matched filters are well known in the art.
- Regarding claims 11 and 12, referring to claims 2 and 3, Fukasawa in view of Pandula in further view of Skinner does not expressly disclose that the acquisition code is a Barker code; however, Fukasawa in view of Pandula in further view of Skinner does disclose that the acquisition code is a spreading code (Fukasawa: col. 2, lines 45-64). Schilling teaches, in a CDMA communication system, using Barker codes to spread an acquisition signal (col. 22, lines 40-41) since Barker codes can have good cross-correlation properties (col. 17, line 56-col. 18, line 9). It would have been obvious to one of ordinary skill in the art at the time of the invention

to use a Barker code as the acquisition code since Barker codes can have good cross-correlation properties.

- 17. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236) as applied to claim 1 above, and further in view of Ozluturk et al. (USPN 5,841,768).
- 18. Regarding claim 7, referring to claim 1, Fukasawa in view of Pandula does not expressly disclose that the length of the acquisition code is shorter than the length of the CDMA communication code by at least a factor of five. Ozluturk teaches, in a CDMA communication system, that short codes permit one unit to quickly synchronize with a spreading code of another unit (col. 3, lines 20-24; col. 7, lines 32-37; and col. 7, line 62-col. 8, line 10). Ozluturk also discloses that the spreading code of another unit should be an integer multiple of the short code since this allows for faster synchronization with the spreading code the another unit (col. 7, line 62-col. 8, line 10). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the length of the acquisition code be a factor of X, where X is an integer, shorter than the length of the CDMA communication code in order to permit one unit to quickly synchronize with another unit.

Fukasawa in view of Pandula in further view of Ozluturk does not expressly disclose that the acquisition code is shorter than the CDMA communication code by at least a factor of five; however, Fukasawa in view of Pandula in further view of Ozluturk does disclose that the acquisition code is a factor of X, where X is an integer, shorter than the CDMA communication code (Ozluturk: col. 3, lines 20-24; col. 7, lines 32-37; and col. 7, line 62-col. 8, line 10). It is generally considered to be within the ordinary skill in the art to adjust, vary, select, or optimize

the numerical parameters or values of any system absent a showing of criticality in a particular recited value. The burden of showing criticality is on applicant. In re Mason, 87 F.2d 370, 32 USPQ 242 (CCPA 1937); Marconi Wireless Telegraph Co. v. U.S., 320 U.S. 1, 57 USPQ 471 (1943); In re Schneider, 148 F.2d 108, 65 USPQ 129 (CCPA 1945); In re Aller, 220 F.2d 454, 105 USPQ 233 (CCPA 1055); In re Saether, 492 F.2d 849, 181 USPQ 36 (CCPA 1974); In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977); In re Boesch, 617 F.2d 272, 205 USPO 215 (CCPA 1980). Since Fukasawa in view of Pandula in further view of Ozluturk discloses that the acquisition code is a factor of X, where X is an integer, shorter than the CDMA communication code, it would have been obvious to have the acquisition code be any amount shorter than the CDMA communication code, including by at least a factor of five, absent a showing of criticality by Applicant.

- 19. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236) in further view of Skinner et al. (USPN 5,577,025) as applied to claims 2 and 3 above, and further in view of Ozluturk et al. (USPN 5,841,768).
- 20. Regarding claims 14 and 15, referring to claims 2 and 3, Fukasawa in view of Pandula in further view of Skinner does not expressly disclose that the length of the acquisition code is shorter than the length of the CDMA communication code by at least a factor of five. Ozluturk teaches, in a CDMA communication system, that short codes permit a unit to quickly synchronize with a spreading code of another unit (col. 3, lines 20-24; col. 7, lines 32-37; and col. 7, line 62-col. 8, line 10). Ozluturk also discloses that the spreading code of another unit is an integer multiple of the short code since this allows for faster synchronization with the

spreading code the another unit (col. 7, line 62-col. 8, line 10). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the length of the acquisition code be a factor of X, where X is an integer, shorter than the length of the CDMA communication code in order to permit one unit to quickly synchronize with another unit.

Fukasawa in view of Pandula in further view of Skinner in further view of Ozluturk does not expressly disclose that the acquisition code is shorter than the CDMA communication code by at least a factor of five; however, Fukasawa in view of Pandula in further view of Skinner in further view of Ozluturk does disclose that the acquisition code is a factor of X, where X is an integer, shorter than the CDMA communication code (Ozluturk: col. 3, lines 20-24; col. 7, lines 32-37; and col. 7, line 62-col. 8, line 10). It is generally considered to be within the ordinary skill in the art to adjust, vary, select, or optimize the numerical parameters or values of any system absent a showing of criticality in a particular recited value. The burden of showing criticality is on applicant. In re Mason, 87 F.2d 370, 32 USPQ 242 (CCPA 1937); Marconi Wireless Telegraph Co. v. U.S., 320 U.S. 1, 57 USPQ 471 (1943); In re Schneider, 148 F.2d 108, 65 USPQ 129 (CCPA 1945); <u>In re Aller</u>, 220 F.2d 454, 105 USPQ 233 (CCPA 1055); <u>In re Saether</u>, 492 F.2d 849, 181 USPQ 36 (CCPA 1974); In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977), In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). Since Fukasawa in view of Pandula in further view of Skinner in further view of Ozluturk discloses that the acquisition code is a factor of X, where X is an integer, shorter than the CDMA communication code, it would have been obvious to have the acquisition code be any amount shorter than the CDMA communication code, including by at least a factor of five, absent a showing of criticality by Applicant.

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21. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukasawa et al. (USPN 5,715,521) in view of Pandula (USPN 5,299,236) in further view of Skinner et al. (USPN 5,577,025) as applied to claim 3 above, and further in view of Cheng (USPN 5,563,883).

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22. Regarding claim 9, referring to claim 3, Since Fukasawa in view of Pandula in further view of Skinner does not expressly disclose estimating the number of colliding terminals and using a plurality of different contention-resolving techniques. Cheng teaches, in a communication system, estimating the number of colliding terminals and using a plurality of different contention-resolving techniques in order to avoid collisions (col. 1, lines 15-48 and col. 2, lines 55-58). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to estimate the number of colliding terminals and to use a plurality of different contention-resolving techniques in order to avoid collisions.

Conclusion

- 23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Higuchi et al. (USPN 5,914,943) see col. 1, line 14-col. 2, line 38 which teaches the use of a matched filter for performing correlation in addition to why a short code should be used for a synchronization channel while a long code is used for a traffic channel.
- 24. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after Application/Control Number: 09/587,909

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The

examiner can normally be reached on Mon.-Fri. 7:00-4:30 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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DJR.

Daniel J. Ryman Examiner

Art Unit 2665

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